### **NWSTC Remote Training Module**

### RTM600 COOPERATIVE PROGRAMS OVERVIEW QUESTIONS



**JAN 2004 Revision** 

National Weather Service Training Center Kansas City, MO 64124

## Item 5 RTM600 Review Questions

These 70 questions reference National Weather Service Instructions (NWSI). RTM 600 review questions (item 5) are divided into 4 parts corresponding to the referenced NWSI. Page 8 is an RTM600 completion certificate which must be faxed back to the NWSTC.

PART 1.	The authority for the establishment of the Cooperative Weather Observing
••	Program was established in the of
2.	The mission of the NWS Cooperative Weather Observing Program is two-fold.  They are:  a b
3.	The Cooperative Program is the means by which the NWS obtains observationa data to support the program and
4.	The COOP program includes:  a.) the selection of data sites.  b.) recruiting, appointing and training of observers.  c.) and of equipment.  d.) Station  e.) Data Quality Control  f.) Management of both fiscal and resources.
5.	NWS Cooperative Weather Observers required to take or pass observation certification examinations.
6.	A Cooperative Weather Station be collocated with other types of observing stations.
7.	Cooperative Weather observers may serve on either a paid or unpaid basis, depending on and
8.	Equipment used at NWS Cooperative Stations may be owned by the NWS, the Cooperative Observer, or by a company or other government agency, as long as it as documented in NWSI 10-1302.

<b>9.</b> A Cooperative Weather Station will be considered "official" and will lin the cooperative network when it has been duly approved and meet criteria. They are:		
	a. Equipment used for observations is	
	<b>b.</b> The station is documented in the data base.	
	c. The station is assigned a by, a by the NWS Office of Operational	
	Systems,requested through the system data base.	
10.	The establishes National Policy and provides guidelines for program management in areas to all regions.	
11.	The, in coordination with other offices, is responsible for determining overall requirements for the and	
	of measurements, the with which observations should be reported, and the of observing sites in the Climatological network.	
12.	determines the requirements to establish, change, or close observing sites.	
13.	OCWWS coordinates program activity and establishes procedures to	
	of the cooperative program networks and to assure the networks continue to for which they were established.	
14.	The has nationwide responsibility to establish and maintain to support	
	the cooperatie station management program at WSH.	
15.	implements national policy. They can	
	implements national policy. They can also national policies and procedures with additional details.	
16.	are also responsible for obtaining	
	from other government agencies and assuring that these funds are	
17.	The NWSREP may work out of a WFO, WSO, or DCO and is responsible for the and of cooperative station equipment	
18.	At times, NWS officials such as a), b), c), d), e) and others may perform functions or be assigned responsibilities within the scope of	
	c), d), e)and	
	others may perform functions or be assigned responsibilities within the scope of the cooperative program and are considered an	

19.	Duties of the NWSREP include:
	a
	b
	C
	d
	e
20.	Other duties of the NWSREP include and
	maintenance of assigned COOP equipment.
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21.	visits to cooperative stations are made for the purpose of observer
	training, equipment maintenance, and verification of
22.	Temperature and non recording precipitation stations are visited on an
<b>ZZ.</b>	basis. Other stations, such as those that measure evaporation and
	those with recording rain gauges are visited
23.	NWSREPs should prepare all forms required or furnish adequate notes,
	sketches, and diagrams within of any change.
24.	The network is the basic climatic network of the NWS. Data from this
<b>4</b> 4.	network are used to of the United States.
	Most stations in this network observe 24 hour and
	24 hour totals.
25.	In general, "a" network stations should be spaced approximately miles
	apart. This ideal spacing authorizes at least one "a" network station every 400
	square miles.
26.	Cooperative stations are placed in the network when observed data are
20.	used to support NWS hydrologic programs. Stations are established, changed, or
	closed to meet changing hydrologic needs that have been defined by
	and verified by
27.	Cooperative stations are placed in the network when observed data are
	used to support the forecast, warning and public service
	programs of the NWS. The 3 general classes of "c" network stations include
	a)b)
28.	Stations belonging to other agencies (federal or state), but serviced by the NWS,
	are known as stations. The costs of and of these stations are reimbursed to the NWS by the
	government agency served.

29.	The authority to add, change, or close stations is assigned to the Chief of the or the (or equivalent for Pacific and	
	Alaska Regions) at the Regional Headquarters.	
30.	The network consists of cooperative stations with recording precipitation gauges for which the NWS has taken over funding and maintenance from the U.S. Army Corps of Engineers. All FC stations are placed in the network.	
31.	The Closure of stations in FC networks should be coordinated with the applicable The dosure of stations sponsored by a reimbursable agency should be coordinated with	
32.	Part-time stations established for short periods or on a part-of-the-year basis to fill the needs of special programs will not be considered as a part of the network.	
33.	The is a computerized national data base containing descriptions of the cooperative stations maintained by the NWSREP	
34.	In general, NCDC will publish data from cooperative stations whenever the region has indicated a requirement to do so and the station meets the establish criteria	
35.	the most important tasks of the NWSREP is	
	assuring observations are recorded and reported and data are received promptly by users.	
36.	NWSREP visits, phone calls to observers, awards, and seeing their observations in print, are all forms of	
37.	Awards are very important in the cooperative observing program. They may be given to observers for or	
Part :	2 - VISITATION PROCEDURES - COOPERATIVE STATIONS	
38.	NWSI 10-1309 provides a common guide for the inspections of COOP stations and established for the national program.	
39.	It is the goal of the cooperative station inspection program to  of these COOP stations and to	
	by the observers.	
40.	to cooperative stations are made for the purpose of observer training, equipment maintenance, and	

41.	A times, NWS officials such as Service Hydrologists, Interns,	•	
	Technicians, Facilities Technicians, RH personnel, and other		
	of the COOP and are considered an NWSREP.		
42.	The NWSREP is responsible for thestations within their assigned areas.	of the cooperative	
43.	The NWSREP, in coordination with the will determine the best sites for COOP stations with respect to and availability of COOP observers.	o location, exposure	
44.	The NWSREP must document the COOP site and exposures required metadata and entering the information into the	by collecting the	
<b>45</b> .	Some items to consider when selecting COOP observers are  a) b) c) d) e)		
46.	Once a selection is made for a new Cooperative Weather Ob NWSREP should observer may wish to resign because they are confused and the work.	Otherwise, a new	
47.	The NWSREP trains the Cooperative Observers inobservations. He/she remains with the new observer to demo procedures until satisfied the new observer is		
48.	The NWSREP has the responsibility for of records. Probably the most helpful tool is the observer when their procedures and records can be examine to correct problems.	cooperative station with an d and an effort made	
49.	The NWSREP should prepare and routing station inspection reports.	ne cooperative	
<b>50</b> .	The "Visitation Mission"- because of the infrequency of visits,	should be complete	

	and thorough in itself, insofar as possible, forthe operation of the station.	_ for
51.	In a large measure, the success of the COOP program depends on the and of the single, multi-purpose visit.	
Part	3 - INSTRUMENT REQUIREMENTS AND STANDARDS	
52.	Instrument standards are for sensor resolution, accuracy, siting andstandards can not be met by equipment in place, the standards should be achieved as stations are,, or new stations are established.	If
53.	Referencing 2.4 Climatic Observing Program, The accuracy and resolution standards of all sensors used in climate (i.e.,Cooperative "a" network) observations support the recommendations of the Appendix contains a listing climatic observing program instrument requirements and standards.	g of
54.	Referencing Appendix D, there are three temperature sensors used in the clirobserving program. They are:  a) b) c)	nate
55.	Referencing Appendix D, the temperature accuracy standard for temperature the range of -50F to +122F is degree(s).	in
56.	Referencing Appendix D, All NWS staffed or managed climate observation st providing precipitation measurements will have a that meets the performance standards.	atior
57.	Referencing Appendix D, the standard accuracy requirement for a liquid precipitation rain gauge is plus or minus inches or percent of hourly among (whichever is greater).	
58.	Referencing Appendix E, Air temperature sensors siting standards require the the sensor be over level terrain typical of the area around the station, and; at least feet from any extensive concrete or paved surface. If the sens within an instrument shelter, position the shelter so that the door opens to the with the floor of the shelter above the surface.	or is
59.	Referencing Appendix E, Instrument shelters should be located no closer to a	an

60.	Referencing Appendix E, An object will be considered an obstruction if the object is greater than degrees in horizontal width as measured from the sensor and within feet of the sensor.	
61.	Referencing Appendix E, the orifice (opening) of a precipitation gage will be horizontal (level) and feet above the surface.	
<b>62</b> .	Referencing Appendix E, Sensors be located on rooftops.	
Part	4 CLAIMS FOR ON-THE-JOB INJURIES TOCOOPERATIVE OBSERVERS	
63.	The Federal Employees' Compensation Act provides compensation and medical care for all civil officers and employees of all branches of Federal Government for disability due to	
64.	The law also provides for the and if the injury or disease causes the employee's death.	
65.	Individual observers in the National Weather Service (A_Paid) or Cooperative Observer Program (COOP) may be considered by the NWS as under the Federal Employees' Compensation Act while engaged in observation work	
66.	Final determination as to a Coop Observer's eligibility and extent of coverage under the Act rests with the, U.S. Dept of Labor.	
67.	The NWS covers the procedures and instructions to follow for an accident or incident resulting in a occupational injury or illness. This manual contains the primary forms used in submitting claims.	
68.	The NWSREP or the Regional Cooperative Program Manager will be expected to provide considerable assistance to the observer, including	
69.	In the context of an employee/supervisor relationship, the supervising office's is considered the "supervisor" of either the contract or cooperative observer.	
70.	Forms CA-1 should be filed within of an injury to a cooperative observer. Form CA-2 should be filed within days of the date the observer realized the disease or illness was caused or aggravated.	

#### Attachment A

# COOPERATIVE NETWORK OPERATIONS RTM 600 COMPLETION CERTIFICATION

Be advised thecompleted copy of RTM600 for my review.	has submitted a
I have reviewed the completed RTM and am satisfied that this e given credit for completion.	mployee should be
Signed: Title:	
Please fax this completion certificate to the National Weathe Center at:	er Service Training

816 880-0377

NWSTC must receive this certificate before this employee will be credited with completion in the NWSTC's RTM database.